## DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: xx.28

# WELDING INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter **Report No:** WIR-020836

Address: 333 Burma Road **Date Inspected:** 26-Jul-2010

City: Oakland, CA 94607

**OSM Arrival Time:** 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai China

**CWI Name: CWI Present:** Yes Mr.An Qing Xing No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No **Weld Procedures Followed:** Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes N/A **Approved Drawings:** Yes No **Approved WPS:** No Yes No N/A **Delayed / Cancelled:** 

**Bridge No:** 34-0006 **Component: OBG** Trial Assembly

# **Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Raghavendra Reddy was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

This QA Inspector observed the following work in progress:

### SEGMENT # 9W:

Shielded Metal Arc Welding (SMAW) welding of weld Joint SEG051A-043, SEG053A-013(BP-SP, 9BW+9CW), and Welder is identified as 068746,067609. ZPMC Quality Control (QC) is identified as Mr. Shi Lei. The welding variables appeared to comply with the Applicable WPS-B-P-2214-B-U2-FCM-1.

SMAW welding of weld Joint SEG051A-021, SEG053A-014 (BP-SP, 9BW+9CW), and Welder is identified as 045196,066326. ZPMC Quality Control (QC) is identified as Mr. Shi Lei. The welding variables appeared to comply with the Applicable WPS-B-P-2114-B-U2-FCM-1.

SMAW welding of welds joint BP204-011-003/004, Welder is identified as 037780. ZPMC Quality Control (QC) is identified as Mr. Wang Zhu. The welding variables appeared to comply with the Applicable WPS: WPS-B-P-2112-FCM-1.

# WELDING INSPECTION REPORT

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Flux Cored Arc Welding (FCAW) welding of welds joint BP201-011-007/008, Welder is identified as 045280. ZPMC Quality Control (QC) is identified as Mr. Wang Zhu. The welding variables appeared to comply with the Applicable WPS: WPS-B-T-2132.

### SEGMENT # 9E:

Shielded Metal Arc Welding (SMAW) welding of Weld Joint SEG054A-012, SEG056A-045(9CE+9DE), Critical Welding Repair Report (CWR) B-CWR-1735 Rev0, Welder is identified as 053753. ZPMC Quality Control (QC) is identified as Mr. an Qing Xing. The welding variables appeared to comply with the Applicable WPS-345-SMAW-1G (1F)-FCM-REPAIR-1.

The following Non Destructive Testing (NDT) Inspection carried out as per the ZPMC submitted Notification No. 06286

Magnetic Particle Testing (MT)

This QA Inspector performed MT of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated a MT report for this date. The member is identified as CB#14 Tagging weld. The weld designations reviewed are as follows.

- 1. CB202A-014-005,011,020,017
- 2. CB202G-044-107,108,111,112,144, 162,182,183,148,166, 061,062,184,185,135,136, 133,134,146,164
- 3. CB202G-043-107,108,111,112,144, 162,182,183,148,166, 061,062,184,185,135,136, 133,134,146,164
- 4. CB202G-042-107,108,111,112,144, 162,182,183,148,166, 061,062,184,185,135,136, 133,134,146,164
- 5. CB202G-041-107,108,111,112,144, 162,182,183,148,166, 061,062,184,185,135,136, 133,134,146,164
- 6. CB202C-014-002,003

During MT Inspection of weld joint CB202G-044-135 found Two Linear Indication and more detail refer Incident Report: 04-0120F4\_TL\_15\_B308\_07-26-10\_CB14\_Missed MT\_ Linear Indication.

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.

# **Summary of Conversations:**

Only general conversation was held between QA and QC concerning this project.

#### **Comments**

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Michael Ng (15921845703), who represents the Office of Structural Materials for your project.

<b>Inspected By:</b>	Tharikoppada, Reddy	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer